Ronald Yonemura

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EDUCATION

University of California, Berkeley   **Expected Graduation Date: May 2022**
Electrical Engineering and Computer Science (EECS); Junior   *Berkeley, CA*

Diablo Valley College   **August 2017 – May 2020**
Computer Science   *Pleasant Hill, CA*
- 3.92/4.00 GPA; Academic Honors 2017-2020
- DVC Coders Club 2018

SKILLS

- **Languages:** C++, Java, SQL, Python
- **Technologies:** Visual Studio, IntelliJ IDEA, XCode, PostgreSQL, NumPy, Eclipse, Microsoft Office

RELEVANT COURSEWORK

Program Design and Data Structures C++   **Spring 2019**
Grade: 4.0/4.0
- Assignments: use recursion to complete a Tower of Hanoi game with four disks, test runtimes of different sorting algorithms (heap sort, merge sort, quick sort, etc.) with large arrays, implement a stack, queue, and priority queue for a set of students or customers, test the different traversal methods for a binary search tree, use a hash table to search for student IDs match ones read in through a text file

Object Oriented Programming C++   **Fall 2019**
Grade: 4.0/4.0
- Assignments: populating arrays of objects and performing different transactions, dynamically allocating and deallocating memory for objects, creating derived classes (busses, railcars, helicopters) of a base class (vehicles) and using the classes to apply OOP concepts, abstraction by creating a manager class, implementing virtual functions for the derived classes, create a templated class to display an array with any data type

RELEVANT PROJECTS

Tic-Tac-Toe Game with AI in Java   **2020**
- Three game modes: Player vs. Player, Player vs. Computer, Computer vs. Computer (always ends in a draw)
- Uses the minimax algorithm with Alpha-Beta Pruning to determine the computer's move; features OOP concepts (encapsulation, inheritance, and polymorphism)

Shortest Path Between Cities in C++   **2019**
- Reads in a file of 15 city names, vertexes for each city, and weights (distance between cities) into a graph
- Uses a priority queue to find the shortest path between any two given cities

OTHER EXPERIENCE

- **Food Clerk at Safeway (June 2017 – Present):**
- **ARMS worker at Compumail (July 2017 – January 2018)**